

Section II
Soil and Site Information

Construction Materials Table 2
Clark County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Aa: Aastad-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
At: Aastad-----	65	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Tonka-----	25	Fair Too clayey Water erosion	0.82 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.41	Poor Depth to saturated zone Too Clayey	0.00 0.82
Ba: Badger-----	65	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.14 0.68	Poor Too Clayey Depth to saturated zone	0.00 0.14
Tonka-----	25	Fair Too clayey Water erosion	0.82 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.41	Poor Depth to saturated zone Too Clayey	0.00 0.82
BbB: Barnes-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Fair Carbonate content	0.92

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Buse-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Good	
BbC: Barnes-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Fair Carbonate content	0.92
Buse-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Good	
BcB: Barnes-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Fair Carbonate content	0.92
Buse-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Good	
Svea-----	20	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.92	Good	
BcC: Barnes-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Fair Carbonate content	0.92

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Buse-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Good	
Svea-----	15	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.92	Good	
BdA: Barnes-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Fair Carbonate content	0.92
Svea-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.92	Good	
BdB: Barnes-----	65	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Fair Carbonate content	0.92
Svea-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.92	Good	
BeA: Beadle-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.53	Poor Too Clayey	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BeB: Beadle-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.53	Poor Too Clayey	0.00
BeC: Beadle-----	80	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.53	Poor Too Clayey	0.00
BfA: Beadle-----	55	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.53	Poor Too Clayey	0.00
Dudley-----	35	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.40	Poor Sodium content Too Clayey Salinity	0.00 0.00 0.50
BkD: Betts-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Poor Slope Carbonate content	0.00 0.92
Ethan-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Poor Slope Carbonate content	0.00 0.68

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BmA: Blendon-----	85	Fair Low content of organic matter	0.50	Good		Good	
Bn: Bon-----	85	Good		Good		Good	
Bo: Bon-----	85	Good		Good		Good	
BrD: Buse-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Poor Slope	0.00
Barnes-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Fair Slope Carbonate content	0.37 0.92
BsE: Buse-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Slope Low strength Shrink-swell	0.00 0.22 0.87	Poor Slope	0.00
Barnes-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell Slope	0.78 0.87 0.92	Poor Slope Carbonate content	0.00 0.92

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BuE: Buse-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Slope Low strength Shrink-swell	0.00 0.22 0.87	Poor Slope	0.00
La Prairie-----	30	Fair Carbonate content	0.92	Poor Low strength Shrink-swell	0.00 0.87	Good	
Barnes-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell Slope	0.78 0.87 0.92	Poor Slope Carbonate content	0.00 0.92
ByE: Buse-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Slope Low strength Shrink-swell	0.00 0.22 0.87	Poor Slope	0.00
Langhei-----	35	Fair Low content of organic matter Carbonate content Too clayey	0.12 0.46 0.95	Poor Slope Low strength	0.00 0.00	Poor Slope Carbonate content Too Clayey	0.00 0.46 0.55
BzE: Buse-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Slope Low strength Shrink-swell	0.00 0.22 0.87	Poor Slope	0.00
Sioux-----	35	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.19	Poor Slope	0.00	Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ca: Cavour-----	55	Poor Too clayey Salinity Sodium content Carbonate content Water erosion	0.00 0.50 0.90 0.99 0.99	Poor Low strength Shrink-swell	0.00 0.43	Poor Too Clayey Salinity Sodium content	0.00 0.00 0.90
Ferney-----	35	Poor Sodium content Too clayey Low content of organic matter Salinity Carbonate content	0.00 0.00 0.50 0.88 0.92	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Too Clayey Salinity Carbonate content	0.00 0.00 0.00 0.92
CbA: Clarno-----	60	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bonilla-----	30	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.90	Good	
CbB: Clarno-----	65	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bonilla-----	25	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.90	Good	
CeB: Clarno-----	40	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ethan-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.68
Bonilla-----	25	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.90	Good	
CeC: Clarno-----	40	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.68
Bonilla-----	20	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength Shrink-swell	0.00 0.90	Good	
Co: Colvin-----	90	Fair Carbonate content Water erosion	0.80 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Carbonate content	0.00 0.80
Cr: Cresbard-----	55	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.90 0.99	Poor Low strength Shrink-swell	0.00 0.59	Poor Too Clayey Sodium content	0.00 0.90

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cavour-----	35	Poor Too clayey Salinity Sodium content Carbonate content Water erosion	0.00 0.50 0.90 0.99 0.99	Poor Low strength Shrink-swell	0.00 0.43	Poor Too Clayey Salinity Sodium content	0.00 0.00 0.90
Ct: Crossplain-----	60	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.14 0.51	Poor Too Clayey Depth to saturated zone	0.00 0.14
Tetonka-----	25	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.15	Poor Depth to saturated zone Too Clayey	0.00 0.00
Cu: Cubden-----	90	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.92	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.87 0.91	Fair Depth to saturated zone Carbonate content	0.91 0.92
Cv: Cubden-----	55	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.92	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.87 0.91	Fair Depth to saturated zone Carbonate content	0.91 0.92
Badger-----	35	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.14 0.68	Poor Too Clayey Depth to saturated zone	0.00 0.14

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cw: Cubden-----	55	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.92	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.87 0.91	Fair Depth to saturated zone Carbonate content	0.91 0.92
Tonka-----	30	Fair Too clayey Water erosion	0.82 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.41	Poor Depth to saturated zone Too Clayey	0.00 0.82
Da: Davison-----	60	Fair Carbonate content Water erosion	0.84 0.99	Fair Shrink-swell Depth to saturated zone	0.87 0.98	Fair Carbonate content Depth to saturated zone	0.84 0.98
Crossplain-----	25	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.14 0.51	Poor Too Clayey Depth to saturated zone	0.00 0.14
DeA: Delmont-----	50	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.76	Good		Poor Rock fragments Too sandy Hard to reclaim	0.00 0.14 0.32
Enet-----	40	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
DeB: Delmont-----	55	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.76	Good		Poor Rock fragments Too sandy Hard to reclaim	0.00 0.14 0.32

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Enet-----	35	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
Dm: Dimo-----	85	Fair Low content of organic matter	0.12	Fair Depth to saturated zone	0.76	Fair Hard to reclaim Depth to saturated zone	0.08 0.76
Dv: Divide-----	90	Fair Carbonate content	0.32	Fair Depth to saturated zone	0.91	Fair Hard to reclaim Carbonate content Depth to saturated zone Rock fragments	0.18 0.32 0.91 0.97
Dx: Dudley-----	55	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.40	Poor Sodium content Too Clayey Salinity	0.00 0.00 0.50
Jerauld-----	35	Poor Sodium content Low content of organic matter Too clayey Salinity Water erosion	0.00 0.12 0.32 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Salinity Too Clayey	0.00 0.00 0.19

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dy: Durrstein-----	85	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Sodium content Depth to saturated zone Too Clayey Salinity	0.00 0.00 0.00 0.00
EgA: Egeland-----	45	Good		Good		Good	
Embden-----	45	Fair Low content of organic matter	0.50	Good		Good	
EgB: Egeland-----	50	Good		Good		Good	
Embden-----	40	Fair Low content of organic matter	0.50	Good		Good	
EoD: Ethan-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Poor Slope Carbonate content	0.00 0.68
Bon-----	30	Good		Good		Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Fa: Farmsworth-----	50	Poor Too clayey Sodium content Salinity Water erosion	0.00 0.00 0.88 0.99	Fair Shrink-swell Depth to saturated zone	0.21 0.76	Poor Too Clayey Sodium content Salinity Depth to saturated zone	0.00 0.00 0.00 0.76
Durrstein-----	35	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Sodium content Depth to saturated zone Too Clayey Salinity	0.00 0.00 0.00 0.00
FdA: Fordville-----	95	Fair Low content of organic matter Too sandy	0.12 0.14	Good		Poor Rock fragments Too sandy Hard to reclaim	0.00 0.14 0.18
FmA: Forman-----	65	Fair Low content of organic matter Too clayey Carbonate content Water erosion	0.12 0.88 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Too Clayey	0.83
Aastad-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	

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FmB: Forman-----	65	Fair Low content of organic matter Too clayey Carbonate content Water erosion	0.12 0.88 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Too Clayey	0.83
Aastad-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
FnB: Forman-----	35	Fair Low content of organic matter Too clayey Carbonate content Water erosion	0.12 0.88 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Too Clayey	0.83
Buse-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Good	
Aastad-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
FnC: Forman-----	40	Fair Low content of organic matter Too clayey Carbonate content Water erosion	0.12 0.88 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Too Clayey	0.83

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Buse-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Good	
Aastad-----	15	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
FOA: Forman-----	60	Fair Low content of organic matter Too clayey Carbonate content Water erosion	0.12 0.88 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Too Clayey	0.83
Cresbard-----	30	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.90 0.99	Poor Low strength Shrink-swell	0.00 0.59	Poor Too Clayey Sodium content	0.00 0.90
FOB: Forman-----	60	Fair Low content of organic matter Too clayey Carbonate content Water erosion	0.12 0.88 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Too Clayey	0.83
Cresbard-----	30	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.90 0.99	Poor Low strength Shrink-swell	0.00 0.59	Poor Too Clayey Sodium content	0.00 0.90

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ft: Forman-----	50	Fair Low content of organic matter Too clayey Carbonate content Water erosion	0.12 0.88 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Too Clayey	0.83
Cresbard-----	25	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.90 0.99	Poor Low strength Shrink-swell	0.00 0.59	Poor Too Clayey Sodium content	0.00 0.90
Tonka-----	15	Fair Too clayey Water erosion	0.82 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.41	Poor Depth to saturated zone Too Clayey	0.00 0.82
HaA: Hamerly-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.80 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22 0.87 0.91	Fair Depth to saturated zone Carbonate content	0.91 0.92
Hb: Hamerly-----	60	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.80 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22 0.87 0.91	Fair Depth to saturated zone Carbonate content	0.91 0.92
Tonka-----	25	Fair Too clayey Water erosion	0.82 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.41	Poor Depth to saturated zone Too Clayey	0.00 0.82

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hd: Harriet-----	90	Poor Sodium content Carbonate content Salinity Low content of organic matter Water erosion	0.00 0.46 0.88 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.79	Poor Depth to saturated zone Sodium content Salinity Carbonate content	0.00 0.00 0.00 0.46
He: Heil-----	90	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.12 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone Salinity	0.00 0.00 0.00
HkB: Henkin-----	50	Fair Low content of organic matter	0.12	Good		Good	
Blendon-----	35	Fair Low content of organic matter	0.50	Good		Good	
HmA: Hetland-----	90	Poor Too clayey Carbonate content Water erosion	0.00 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Carbonate content	0.00 0.97
HmB: Hetland-----	90	Poor Too clayey Carbonate content Water erosion	0.00 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Carbonate content	0.00 0.97
HnB: Houdek-----	40	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ethan-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.68
Prosper-----	25	Fair Too clayey	0.98	Poor Low strength Shrink-swell	0.00 0.90	Fair Too Clayey	0.93
HnC: Houdek-----	45	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.68
Prosper-----	15	Fair Too clayey	0.98	Poor Low strength Shrink-swell	0.00 0.90	Fair Too Clayey	0.93
HpA: Houdek-----	65	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
Prosper-----	25	Fair Too clayey	0.98	Poor Low strength Shrink-swell	0.00 0.90	Fair Too Clayey	0.93
HpB: Houdek-----	65	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
Prosper-----	25	Fair Too clayey	0.98	Poor Low strength Shrink-swell	0.00 0.90	Fair Too Clayey	0.93

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HsA: Houdek-----	60	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
Stickney-----	30	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.50 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Salinity	0.00 0.00
HsB: Houdek-----	60	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
Stickney-----	25	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.50 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Salinity	0.00 0.00
Ht: Houdek-----	50	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
Stickney-----	25	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.50 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Salinity	0.00 0.00
Tetonka-----	15	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.15	Poor Depth to saturated zone Too Clayey	0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hv: Hoven-----	95	Poor Too clayey Sodium content Low content of organic matter Salinity Water erosion	0.00 0.00 0.50 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00
KrB: Kranzburg-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Buse-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Good	
Waubay-----	25	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
La: La Prairie-----	90	Fair Carbonate content	0.92	Poor Low strength Shrink-swell	0.00 0.87	Good	
Lf: La Prairie-----	65	Fair Carbonate content	0.92	Poor Low strength Shrink-swell	0.00 0.87	Good	
Fairdale-----	25	Fair Carbonate content	0.92	Fair Shrink-swell	0.87	Fair Carbonate content	0.92

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lh: La Prairie-----	60	Fair Carbonate content	0.92	Poor Low strength Shrink-swell	0.00 0.87	Good	
Holmquist-----	25	Fair Low content of organic matter Sodium content	0.12 0.60	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.78 0.87	Poor Depth to saturated zone Salinity Sodium content	0.00 0.50 0.60
Lk: Ladelle-----	90	Good		Poor Low strength Shrink-swell	0.00 0.95	Good	
Lm: Lamo-----	85	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.53 0.87	Fair Depth to saturated zone	0.53
Lo: Lowe-----	90	Fair Low content of organic matter Carbonate content	0.50 0.68	Poor Depth to saturated zone Shrink-swell	0.00 0.87	Poor Depth to saturated zone Carbonate content	0.00 0.68
Lw: Ludden-----	85	Poor Too clayey Salinity	0.00 0.50	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone Salinity	0.00 0.00 0.50
MaB: Maddock-----	55	Poor Too sandy Low content of organic matter	0.00 0.88	Good		Poor Too sandy	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Egeland-----	35	Good		Good		Good	
MaC: Maddock-----	60	Poor Too sandy Low content of organic matter	0.00 0.88	Good		Poor Too sandy	0.00
Egeland-----	30	Good		Good		Good	
Md: Marysland-----	50	Fair Low content of organic matter Carbonate content	0.12 0.68	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Carbonate content Hard to reclaim	0.00 0.68 0.92
Divide-----	40	Fair Carbonate content	0.32	Fair Depth to saturated zone	0.91	Fair Hard to reclaim Carbonate content Depth to saturated zone Rock fragments	0.18 0.32 0.91 0.97
MsA: Mauvais-----	85	Good		Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.76 0.87	Fair Depth to saturated zone Salinity	0.76 0.88
MtA: Minnewasta-----	85	Fair Low content of organic matter Sodium content Water erosion	0.12 0.90 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.32 0.89	Fair Depth to saturated zone Salinity Sodium content	0.32 0.88 0.90

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MtB: Minnewasta-----	90	Fair Low content of organic matter Sodium content Water erosion	0.12 0.90 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.32 0.89	Fair Depth to saturated zone Salinity Sodium content	0.32 0.88 0.90
Mw: Minnewaukan-----	90	Poor Wind erosion Too sandy Low content of organic matter Droughty	0.00 0.16 0.50 0.68	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Too sandy Rock fragments	0.00 0.16 0.88
Mz: Moritz-----	60	Fair Carbonate content	0.92	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.76 0.99	Fair Depth to saturated zone Carbonate content	0.76 0.92
Lowe-----	25	Fair Low content of organic matter Carbonate content	0.50 0.68	Poor Depth to saturated zone Shrink-swell	0.00 0.87	Poor Depth to saturated zone Carbonate content	0.00 0.68
Od: Oldham-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.35	Poor Too Clayey Depth to saturated zone	0.00 0.00
Og: Orthents, Gravelly--	90	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.29	Poor Slope	0.00	Poor Rock fragments Slope Too sandy Hard to reclaim	0.00 0.00 0.14 0.18

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pa: Parnell-----	95	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.20	Poor Depth to saturated zone Too Clayey	0.00 0.00
PeA: Peever-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
PeB: Peever-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
Pf: Peever-----	65	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
Cavour-----	25	Poor Too clayey Salinity Sodium content Carbonate content Water erosion	0.00 0.50 0.90 0.99 0.99	Poor Low strength Shrink-swell	0.00 0.43	Poor Too Clayey Salinity Sodium content	0.00 0.00 0.90
Pk: Peever-----	45	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cresbard-----	25	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.90 0.99	Poor Low strength Shrink-swell	0.00 0.59	Poor Too Clayey Sodium content	0.00 0.90
Tonka-----	15	Fair Too clayey Water erosion	0.82 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.41	Poor Depth to saturated zone Too Clayey	0.00 0.82
Pm: Playmoor-----	90	Fair Salinity Sodium content	0.88 0.97	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Salinity	0.00 0.00
PnB: Poinsett-----	35	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Good	
Buse-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Good	
Waubay-----	25	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
PnC: Poinsett-----	40	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Good	
Buse-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Good	
Waubay-----	15	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
PoC: Poinsett-----	45	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Good	
Rusklyn-----	40	Fair Carbonate content Water erosion	0.80 0.90	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.80
PrB: Poinsett-----	40	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Good	
Rusklyn-----	25	Fair Carbonate content Water erosion	0.80 0.90	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.80

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Waubay-----	25	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
PwA: Poinsett-----	55	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Good	
Waubay-----	35	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
PwB: Poinsett-----	65	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Good	
Waubay-----	25	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
Ra: Ranslo-----	85	Fair Sodium content Low content of organic matter Carbonate content Too clayey Water erosion	0.10 0.12 0.46 0.76 0.99	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.12 0.53	Poor Sodium content Too Clayey Carbonate content Depth to saturated zone Salinity	0.00 0.44 0.46 0.53 0.88

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Re: Rauville-----	85	Fair Too clayey	0.88	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.86
RfA: Fordville-----	45	Fair Low content of organic matter Too sandy	0.12 0.14	Good		Poor Rock fragments Too sandy Hard to reclaim	0.00 0.14 0.18
Renshaw-----	45	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.89	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
RfB: Renshaw-----	55	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.89	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
Fordville-----	35	Fair Low content of organic matter Too sandy	0.12 0.14	Good		Poor Rock fragments Too sandy Hard to reclaim	0.00 0.14 0.18
RsA: Renshaw-----	65	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.89	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sioux-----	25	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.19	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
RsB: Renshaw-----	55	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.89	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
Sioux-----	35	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.19	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
RsC: Renshaw-----	45	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.89	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
Sioux-----	45	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.19	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
Sa: Salmo-----	85	Fair Salinity Carbonate content Sodium content Too clayey	0.88 0.97 0.97 0.98	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Salinity Sodium content Too Clayey	0.00 0.00 0.98 0.98

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Construction Materials Table 2
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(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SnA: Sinai-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Low strength Shrink-swell	0.00 0.00	Poor Too Clayey	0.00
SnB: Sinai-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Low strength Shrink-swell	0.00 0.00	Poor Too Clayey	0.00
SrD: Sioux-----	55	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.19	Good		Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 0.00 0.00 0.37
Renshaw-----	35	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.89	Good		Poor Rock fragments Hard to reclaim Too sandy Slope	0.00 0.08 0.14 0.37
Ss: Southam-----	90	Fair Too clayey Carbonate content Water erosion	0.76 0.92 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.23	Poor Depth to saturated zone Too Clayey Salinity	0.00 0.76 0.88
Sw: Spottswood-----	90	Fair Low content of organic matter	0.12	Good		Poor Hard to reclaim	0.00

Section II
Soil and Site Information

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sy: Stickney-----	55	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.50 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Salinity	0.00 0.00
Dudley-----	35	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.40	Poor Sodium content Too Clayey Salinity	0.00 0.00 0.50
Te: Tetonka-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.15	Poor Depth to saturated zone Too Clayey	0.00 0.00
To: Tonka-----	90	Fair Too clayey Water erosion	0.82 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.41	Poor Depth to saturated zone Too Clayey	0.00 0.82
Va: Vallars-----	50	Fair Carbonate content Water erosion	0.46 0.99	Poor Depth to saturated zone Low strength	0.00 0.22	Poor Depth to saturated zone Carbonate content	0.00 0.46
Hamerly-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.80 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22 0.87 0.91	Fair Depth to saturated zone Carbonate content	0.91 0.92

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
Wa: Waubay-----	90	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
Wg: Worthing-----	90	Fair Too clayey Water erosion	0.12 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey	0.00 0.12
Wm: Wyndmere-----	90	Fair Low content of organic matter Carbonate content	0.50 0.68	Fair Depth to saturated zone	0.91	Fair Carbonate content Depth to saturated zone	0.68 0.91
Wp: Wyndmere-----	60	Fair Low content of organic matter Carbonate content	0.50 0.68	Fair Depth to saturated zone	0.91	Fair Carbonate content Depth to saturated zone	0.68 0.91
Parnell-----	30	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.20	Poor Depth to saturated zone Too Clayey	0.00 0.00

